



РФЯЦ-ВНИИТФ  
РОСАТОМ



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## Events

*The history of scientific and technical events at RFNC – VNIITF named after Academician E.I. Zababakhin begins in 1987, when the First Zababakhin Scientific Readings were held. In subsequent years, VNIITF repeatedly hosted guests from different parts of the country and the world, organizing conferences and seminars on a wide variety of topics. Some of them have already become history.*



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## Higher School of Physics

On November 15, 2012, the first module of the Higher School of Physics (HSP) was held at the SNPI MEPhI. It was created to develop scientific and technical competencies of employees of the Rosatom State Corporation organizations in the field of theoretical and experimental physics. Young scientists, representatives of RFNC-VNIIEF, RFNC-VNIITF, SSC RF-IPPE, SSC RF TRINITI took part in the HSP. The lectures were given by leading Russian physicists: Academician Vladimir Fortov and Corresponding Member Yuri Kagan. It was planned to hold four modules of classes over the course of two years. The fact that the first module was held in Snezhinsk is due to the merit of RAS Academicians Evgeny Avrorin and Georgy Rykovanov.

The meeting was opened by the Chairman of the Scientific Council of the Higher School of Physics, Academician of the Russian Academy of Sciences Valentin Smirnov, who formulated the main objective of the school - to increase the level of competence of employees of Rosatom institutes, to expand their professional horizons on a wide range of problems of modern physics without interrupting their main activities. V. Smirnov emphasized that the management of the State Corporation Rosatom attaches great importance to the Higher School, as well as to the fact that this form of education is experimental.

Scientific Director of VNIITF G. Rykovanov, speaking about the work of the School, noted three defining points:

- 1) the need for deep knowledge related to fundamental science to carry out work on the main topics of the institute;
- 2) "production" competition between nuclear centers does not extend to the field of fundamental science and to the field of ensuring the safety of nuclear weapons.
- 3) the nuclear industry should serve as the locomotive of the country's development, and the process of technological re-equipment of the country is a long-term process in which young scientists should play a decisive role.



## **XI International Seminar "Fundamental Properties of Plutonium"**

From September 12 to 16, 2011, the 11th International Seminar "Fundamental Properties of Plutonium" was held in the Snezhinsk Scientific and Technical Council. The seminar brought together about 100 representatives of American and Russian scientific institutes and laboratories. Among them were scientists from Stanford University, Los Alamos National Laboratory, Lawrence Livermore National Laboratory, Sandia National Laboratories, Lomonosov Moscow State University, RFNC - VNIIEF, VNIINM named after academician A.A. Bochvar, RFNC - VNIITF named after academician E.I. Zababakhin and other scientific institutes.



Oral and poster presentations were given. Of the 59 oral presentations, half were prepared by specialists from Ural institutes. The topics of the sections included such areas as fundamental aspects of plutonium aging, phase stability and phase transformations, dynamic properties of actinides, current issues in nuclear energy, electronic structure of actinides and modeling, plutonium oxides, isotopes and corrosion.



## **From environmental research to environmental technologies**

From May 30 to June 2, 2006, the International Scientific Seminar "From Environmental Research to Environmental Technologies" was held. It brought together about 100 participants from Russia, Belarus, Kyrgyzstan, Great Britain, Germany, and France. Among them were scientists, specialists in the field of monitoring and modeling processes in the environment, comprehensive assessment of contaminated territories, development of waste processing technologies and rehabilitation technologies, representatives of the Chelyabinsk Region administration and its municipal entities, industry, and consulting agencies.

The high scientific level of the reports presented at the seminar was noted. Their topics covered a wide range of research: from the development of measurement methods, devices and systems for environmental monitoring to the development of comprehensive approaches and programs for the rehabilitation of contaminated areas, from

environmental research to the development of environmental technologies.

### **III International Conference LYAN-IR (2002)**

The 3rd International Conference "Problems of Nuclear-Pumped Lasers and Pulsed Reactors" (LPN-IR 2002) was held on September 16-20, 2002, at the Dalnyaya Dacha sanatorium (Kyshtym, Chelyabinsk Region).

The third international conference was notable for the fact that it combined two closely related topics for the first time - nuclear-pumped lasers and pulsed reactors.

The event was attended by about 70 specialists from 7 countries, more than 100 reports were presented, which considered a wide range of problems, including the kinetics of active media of LLNs, physics and constants of elementary processes, spectral characteristics of laser media, physics of INR, neutron kinetics and reactor dynamics, problems of operation and safety of nuclear reactors, critical mass experiments and application of INR, and others.

The reports presented fundamental scientific research carried out in the above-mentioned areas and of interest to the global community.

### **SAMGOP-2002**

From July 5 to July 13, 2002, the School-Seminar "Analytical Methods and Optimization of Processes in Mechanics of Liquids and Gases" (SAMGOP-2002) was held. The School-Seminar covered such research topics as methods for optimizing process and design parameters, flows with spiral and vortex inclusions, energy cumulation, collapse of spherical cavities and shells, shock-free compression, models of mechanics: combustion, impact, explosion, multiphase, thermal conductivity, gravity, turbulence, convection, viscosity and others.

The largest number of papers were presented on models of continuum mechanics. An entire session was devoted to problems that arise when individual regions in a fluid either rotate or begin to rotate.



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## Anniversary International Sungul Conference

At its 30th General Conference, UNESCO decided to include in the list of events to mark memorable dates in 2000-2001 the 100th anniversary of the birth of Nikolai Vladimirovich Timofeev-Resovsky, a prominent Russian scientist recognized as a scientific genius throughout the world. Memorial events in the Urals took place from 21 to 26 August 2000, first in Zarechny, where a special scientific seminar was held, and then in Sungul.

Representatives from Russia, near and far abroad countries came to the Sungul Conference. The work was attended by the Chairman of the Presidium of the Ural Branch of the Russian Academy of Sciences, Academician V.A. Chereshev, Academicians of the Russian Academy of Sciences E.N. Avrorin, V.N. Bolshakov, B.V. Litvinov, Corresponding Member of the Russian Academy of Sciences E.P. Romanov, Academicians of the Russian Academy of Medical Sciences L.A. Buldakov and N.V. Vasiliev, veterans of Laboratory "B", students of N.V. Timofeev-Resovsky, A.N. Timofeev - the son of Nikolai Vladimirovich - a total of 135 participants.



## Rehabilitation of large areas

On June 21-25, 1999, the Second Seminar of the Scientific Advisory Committee (SAC) of the ISTC "Rehabilitation of Large Territories" was held in Snezhinsk. The seminar was attended by specialists in the field of environmental protection and rehabilitation from Great Britain, Belgium, Germany, Korea, Kyrgyzstan, Norway, the USA, and Japan. Russia was represented by scientists from Moscow, St. Petersburg, Novosibirsk, Yekaterinburg, Chelyabinsk, Sarov, Ozersk, and Snezhinsk.

The topics discussed included nuclear pollution, environmental pollution and public health, environmental monitoring, environmental restoration and waste management. On these topics, 45 oral and 15 poster presentations were made at the seminar.



**Pugwash Conference**



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From September 11 to 13, 1997, the IV International Pugwash Conference “Status and Prospects of the Nuclear Complexes of the USA and Russia” was held in Snezhinsk.

Scientists from Russia, the USA, Great Britain, Germany, Japan, France, Italy, Sweden, Switzerland and China took part in the conference.

The conference lasted two days and discussed the problems of nuclear cities, issues of international cooperation between laboratories, and technological aspects of disarmament.

## **Space Defense of the Earth**

From September 26 to 30, 1994 and from September 22 to 27, 1996, the International Conference “Space Defense of the Earth” was held at the RFNC – VNIITF named after Academician E.I. Zababakhin.

More than 200 scientists and specialists in astronomy, planetary physics, astrophysics, rocket and nuclear technology from Russia, the USA, Italy, France and the CIS countries took part in the conferences. Each time, about 100 scientists were heard and about 100 poster reports were presented on such topics as the discovery, observation and study of asteroids and comets approaching the Earth, the catastrophic consequences of collisions of asteroids and comets with the Earth, space missions to asteroids and comets, etc.

[Check out the latest research on space defense for Earth](#)



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# Materials on the topic

ROSATOM  
SNEZHINSK

## About RFNC-VNIITF

## Change as a necessity

*RFNC-VNIITF employees took part in the first industry conference of line managers*

## Conference on Radiation Hardness

*The RFNC-VNIITF team took part in the XIII Interindustry Conference on Radiation Resistance, which was held from September 13 to 17 in Sarov.*

AGREEMENT  
TEXLER  
LIKHACHEV

## New development for "closed" cities

*On September 3, the signing of the Cooperation Agreement between Rosatom and the Chelyabinsk Region took place at the residence of the Governor of the Chelyabinsk Region.*

## "Atomic" science - for the benefit of the Chelyabinsk region

*On August 21, Acting Governor of the Chelyabinsk Region Alexey Teksler visited Snezhinsk on a working visit.*

## RFNC-VNIITF in the development of atomic artillery of the USSR

*A witness and participant of the events tells about people, their deeds and problems related to the creation of nuclear equipment for artillery ammunition for artillery-mortar systems and not only. The book is addressed to a wide range of readers*



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MANAGEMENT  
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Russian Federal Nuclear Center -  
All-Russian Research Institute  
of Technical Physics named after Academician E.I. Zababakhin.  
**Enterprise of the State Corporation Rosatom**

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